art news

Kyle J. Knoepfel

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Proposed breaking changes

- We'd like to clean up some of the program options:

From	To
`--nomemcheck`	`--no-memcheck`
`--no-output`	`--no-output`
`--notiming`	`--no-timing`
`--notrace`	`--no-trace`

- Replace FHiCL parameters
  - **services.scheduler.wantTracer** → **services.Tracer**
    - still support `--trace` program option
  - **services.floating_point_control** → **services.FloatingPointControl**
    - Retain system service, but get rid of the special casing for the name.

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Configuration pruning for *art* 3.0

- You may have seen notices like this:

```
The following module label is either not assigned to any path,
or it has been assigned to ignored path(s):
'm1a'
```

- In such cases, the ParameterSet created and persisted to disk includes parameters that were not used in the physics processing of that file.
- With *art* 3.0, you can specify the **--prune-config** program option, which will remove unused paths and modules.
  - This reduces the size of in-memory and to-disk objects
  - This removes workflow accretions, making it easier to understand and compare configurations

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ROOT 6.14

- Intended to be released in the next month or so
    - https://root.cern.ch/doc/master/release-notes.html

- The default compression algorithm is changing from ZLIB to LZ4
    - Primary focus is faster (de)compression algorithms, with slightly worse compression factors

- We would like experiment input as to how to proceed.

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